



20Gbps 2x2 Exchange Switch from Diodes Incorporated Enables Fast Multiplexing/Switching in Automotive Media and Driver Assistance Systems

Plano, Texas – March 16, 2023 – Diodes Incorporated (Diodes) (Nasdaq: DIOD) addresses the increase in automotive computing capabilities and its accompanying high-speed interfacing with the new DIODES [PI3DBS16222Q](#). This four-channel differential exchange switch provides a performance-optimized multiplexing solution and is targeted for automotive infotainment, telematics, SATA 3.0, SAS 3.0, and ADAS systems.

The automotive-compliant PI3DBS16222Q enables 2x2 differential multiplexing at speeds of 20Gbps, and supports USB 3.2 Gen 2, PCI Express 4.0, and 10GBASE-KR standards. The device leverages a proprietary design technique, enhancing its dynamic electrical characteristics. This delivers low insertion-loss (-2.0dB at 10GHz typical) and crosstalk (-17dB at 10GHz typical) figures, ensuring high signal-integrity levels. In addition, the device attains a 10ps bit-to-bit skew, and a low return-loss.

The [PI3DBS16222Q](#) high-speed, multi-channel exchange switch from Diodes is AEC-Q100 Grade 2 qualified, manufactured in IATF 16949 certified facilities, and supports PPAP documentation. It is supplied in a compact 2.5mm x 4.5mm TQFN-30L (ZL30) package, and it is available at \$2.50 in 3,500 piece quantities.

About Diodes Incorporated

Diodes Incorporated (Nasdaq: DIOD), a Standard and Poor's SmallCap 600 and Russell 3000 Index company, delivers high-quality semiconductor products to the world's leading companies in the automotive, industrial, computing, consumer electronics, and communications markets. We leverage our expanded product portfolio of discrete, analog, and mixed-signal products and leading-edge packaging technology to meet customers' needs. Our broad range of application-specific solutions and solutions-focused sales, coupled with worldwide operations of 32 sites, including engineering, testing, manufacturing, and customer service, enables us to be a premier provider for high-volume, high-growth markets. For more information visit www.diodes.com.

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